

**Inventor: Jones, et al.**  
**Title: Flipper Arm Ejector**

**CLAIMS**

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2 Having thus described the invention what is claimed as new and desired to be secured by  
3 Letters Patent is as follows:

4 1. An ejector for use in a product determination and separation line, the line including a  
5 conveyor for transferring a product from a first location, said ejector comprising:  
6 a flipper arm;  
7 an actuator for rotating said flipper arm; and  
8 a support for locating said flipper arm and said actuator above a surface of the conveyor.

9 2. The ejector as claimed in Claim 1 wherein said flipper arm at least partially overlaps a  
10 belt of said conveyor when said flipper arm is in a non-activated position.

11 3. The ejector as claimed in Claim 1 wherein said support comprises a first member  
12 fixedly attached to a frame of said conveyor and a second member attached via a releasable  
13 connection to said first member.

14 4. The ejector as claimed in Claim 3 further comprising a pivot connection between said  
15 first member and said second member.

16 5. The ejector as claimed in Claim 4 wherein said releasable connection comprises a  
17 screw and threads.

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2           6.       An ejector for use in a product determination and separation line, the line including a  
3 conveyor for transferring a product from a first location, said ejector comprising:

4           a flipper arm;

5           an actuator for rotating said flipper arm; and

6           a support for locating said flipper arm above a surface of the conveyor to at least partially  
7           overlap a belt of the conveyor when said flipper arm is in a non-activated position.

8           7.       The ejector as claimed in Claim 6 wherein said support comprises a first member  
9           fixedly attached to a frame of said conveyor and a second member attached via a releasable  
10          connection to said first member.

11          8.       The ejector as claimed in Claim 7 further comprising a pivot connection between said  
12          first member and said second member.

13          9.       The ejector as claimed in Claim 8 wherein said releasable connection comprises a  
14          screw and threads.

15          10.       The ejector as claimed in Claim 6 wherein said actuator is located above the surface  
16          of the conveyor.

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2        11.     A method of deflecting a product from a conveyor of a product determination and  
3 separation line comprising the steps of:

4        positioning a flipper arm above the conveyor such that said flipper arm at least partially  
5               overlaps a belt of the conveyor when said flipper arm is in a non-activated position;  
6        activating said flipper arm such that said flipper arm rotates across the surface of the  
7               conveyor belt as a product approaches; and  
8        directing the product to a desired location via said flipper arm.

9        12.     The method as claimed in Claim 11 further comprising the step of deactivating said  
10 flipper arm.